

ABSTRACT OF THE DISCLOSURE

An introducer assembly for inserting a medical device into a body passage. The introducer assembly includes an elongate, tubular and retractable inner sheath formed of a deformable and flexible material. The introducer assembly further includes an inner core removably inserted through and secured to the inner sheath. A lumen within the inner core may serve as a channel for accommodating a guidewire. The introducer assembly is configured with a minimized outer diameter that avoids sheath kinking during insertion in the body passage while utilizing a thin flexible inner sheath capable of accommodating large-diameter catheters. A method for inserting a medical device through the introducer assembly is disclosed.